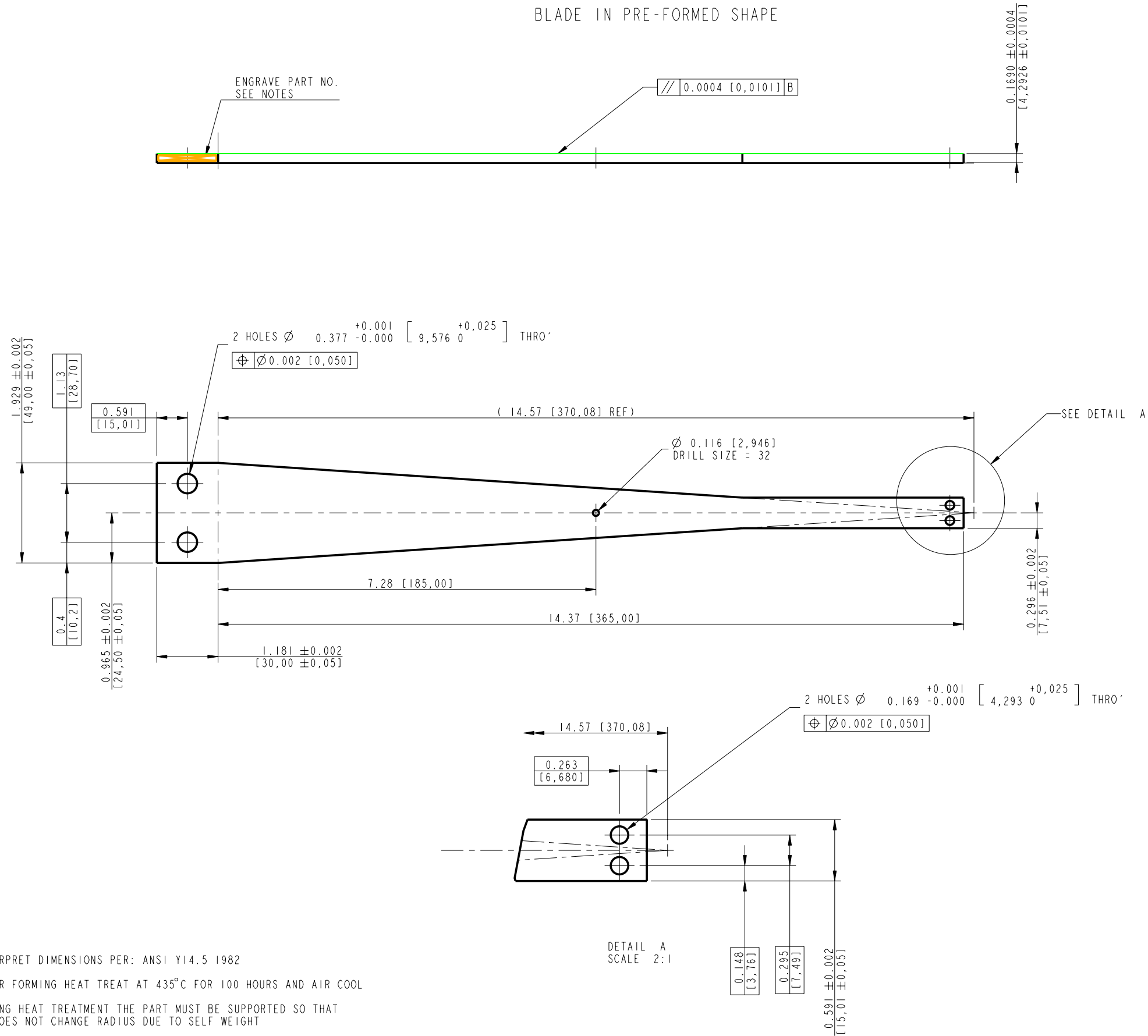


BLADE IN PRE-FORMED SHAPE



NOTES

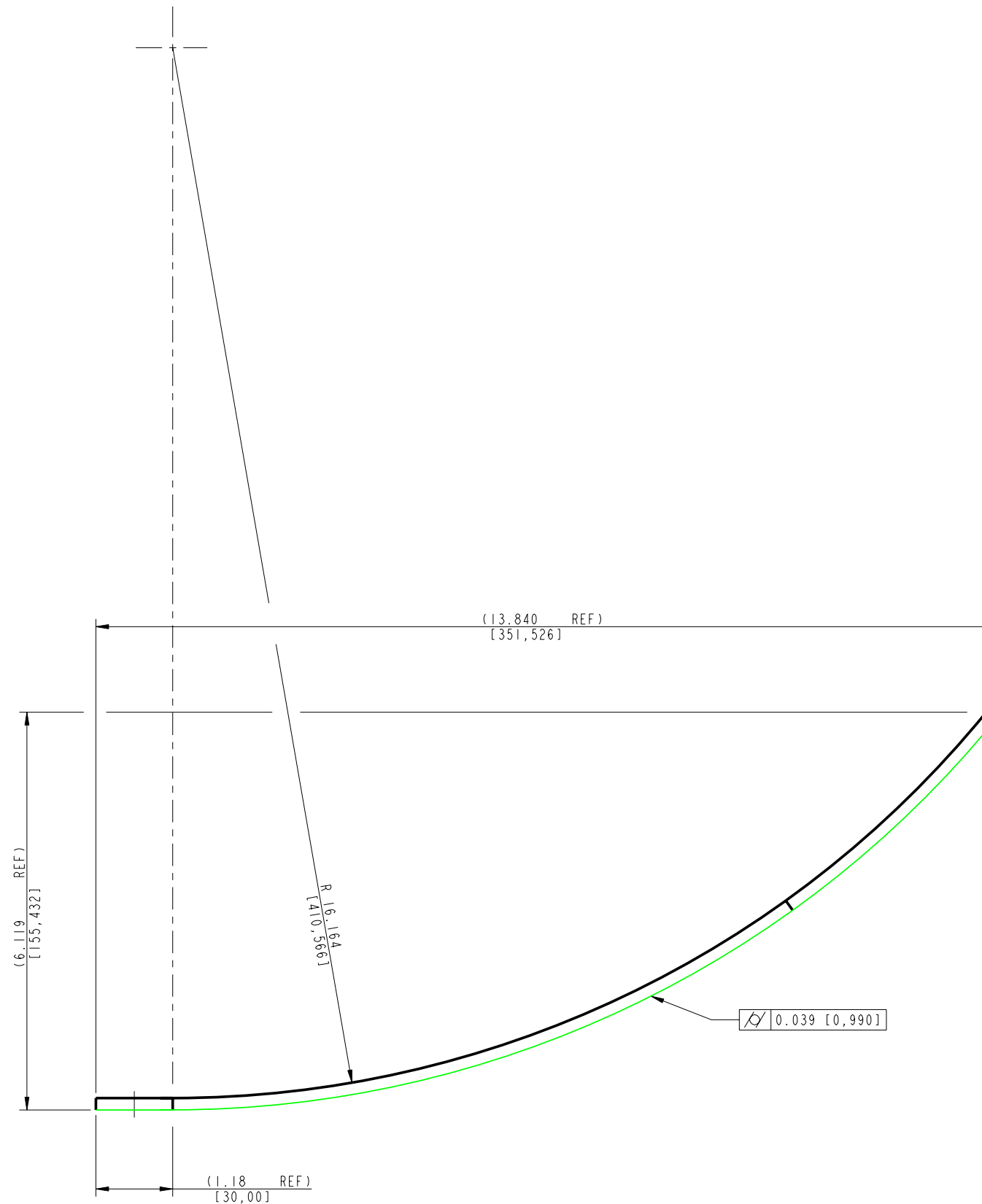
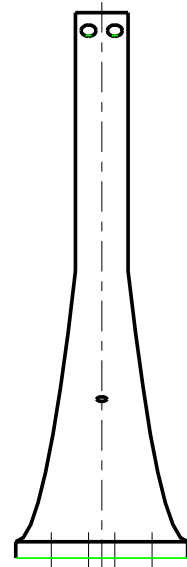
1. INTERPRET DIMENSIONS PER: ANSI Y14.5 1982
2. AFTER FORMING HEAT TREAT AT 435°C FOR 100 HOURS AND AIR COOL
3. DURING HEAT TREATMENT THE PART MUST BE SUPPORTED SO THAT IT DOES NOT CHANGE RADIUS DUE TO SELF WEIGHT

NOTES: (UNLESS OTHERWISE SPECIFIED):		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY FRIEDRICH AEPPLER LABORATORIES	
1. REMOVE ALL SHARP EDGES. R.02 MIN.	2. DO NOT SCALE FROM DRAWING.	DIMENSIONS ARE IN INCHES (mm)	TOLERANCES:
3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SODIUM, CHROMIUM AND SILICONE, SUCH AS CINCINNATI MILACRON'S CINTEC-HD (STAINLESS STEEL)	4. SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON NOTED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE 07* HIGH CHARACTERS. EXAMPLE: 000100 - 001 - A VIBRATORY TOOL MAY BE USED.	X .XX ±0.01 (0.250 mm) X .XX ±0.005 ANGULAR ±0.250 °	MATERIAL: MARAGING STEEL 250
FINISH: CLEAN AND DEGREASE σ_{max} (um) Ra = 32 (0.8)	NAME: DATE:	PART NAME: UPPER INTERMEDIATE MASS	SYSTEM: ADVANCED LIGO
DRAWN: J. WILNET 10/06/04	CHECKED: ...	PART NAME: BOTTOM BLADE SPRINGS	SUB-SYSTEM: SJS
APPROVED: ...	SCALE: 1:1	PROJECTION: ...	SHEET 1 OF 2

INTERNAL NAME: TD-1039-990

FOR INTERNAL USE ONLY:

E=186Gpa
 ALPHA=1.35
 TOTAL SUSP MASS = 39 KG
 P MASS = 19.2 KG
 PREDICTED:
 F = 1.804Hz
 1st INTERNAL MODE = 115.5Hz
 σ MAX = 983MPa
 REF: COMMUNICATION WITH BLADE
 COMMITTEE



NOTES: (UNLESS OTHERWISE SPECIFIED):		CALIFORNIA INSTITUTE OF TECHNOLOGY	
1. REMOVE ALL SHARP EDGES.	DIMENSIONS ARE IN INCHES (mm)	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
2. DO NOT SCALE FROM DRAWING.	TOLERANCES:	100. GLASGOW UNIVERSITY UED 400 GROUP	
3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SODIUM, CHROMIUM AND SILICONE, SUCH AS CINCINNATI MILACRON'S CINTENCH 410 (STAINLESS STEEL).	X .XX ±.00,01 (0.250 mm)	HYDROGENS APPLICATOR LABORATORIES	
4. SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON MATED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE 07* HIGH CHARACTERS. EXAMPLE: 001001 - A VIBRATORY TOOL MAY BE USED.	Y .XX ±.00,01	SYSTEM	ADVANCED LIGO
	ANGULAR ±.05,0	SUB-SYSTEM	SUS
	MATERIAL: MARAGING STEEL 250	NEXT ASSY	UPPER INTERMEDIATE MASS
	FINISH: CLEAN AND DEGREASE	PART NAME	BOTTOM BLADE SPRINGS
	DATE	CONTROLS PROTOTYPE	
	NAME	DRWN	J. WILNET 10/06/04
	DATE	CHEKED	...
	DATE	APPROVED	...
	DATE	DWG. NO.	D040296
	DATE	SCALE	1:1 PROJECTION
	DATE	SHEET	2 OF 2